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ABSTRACT

The present invention relates to novel pluripotent embryonic cell populations derived from embryonic stem cell populations and methods to produce such pluripotent embryonic cell populations. Disclosed is an embryonic stem cell-derived pluripotent embryoid body cell population having one or more cells capable of developing into cells of hematopoietic and/or endothelial lineage. Also disclosed is an embryoid body cell population-derived mixed population of endothelial and erythroid cells. Also disclosed is an embryoid body cell population-derived embryonic blast cell population capable of developing into a variety of hematopoietic cell types. The invention is additionally directed to embryonic stem cell population-derived T and B cell populations. Methods to identify embryonic cell compounds are also disclosed for therapeutic and experimental use.

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